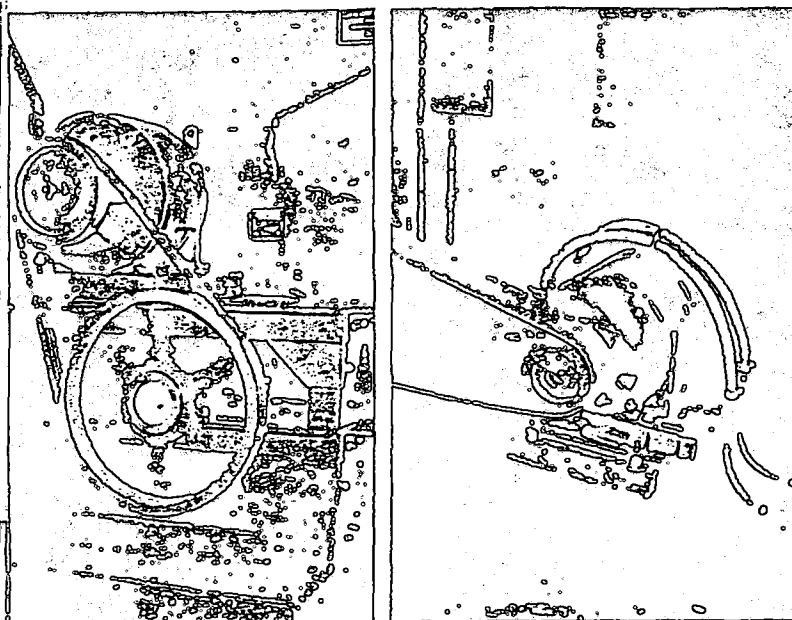
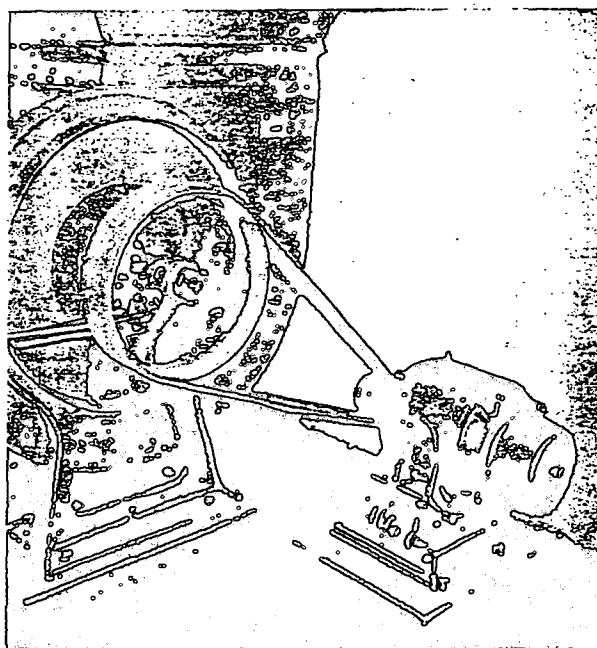




*Left—This motor drives through a V-belt a kitchen exhaust fan serving the French Restaurant. Right—This motor drives a wash-room exhaust fan, which is belt driven.*



*This Elliott Crocker-Wheeler 5-hp, 1200-rpm motor drives through a V-belt the fresh air intake fan for the French Room in the Drake Hotel.*

*Kitchen exhaust fan driven by 30-hp, 850-rpm motor.*

The Crocker-Wheeler equipment for the Palmlive beacon was installed in 1930, when the beacon was erected, and has been in service ever since. The d-c/d-c motor generators provide the constant voltage which must be supplied the light. The main unit, operating at a speed of 1200 rpm, includes a 50-hp, 230-volt, compound motor and a 30-kw, 120-volt, 250-ampere generator. An auxiliary unit involves a 7½-hp, 230-volt, compound-wound motor driving a 3-kw, 37-volt, 80-ampere generator, operating at 1800 rpm. In all the 22 years of service, it has never been necessary to turn or smooth up the commutators on these d-c machines.

The Palmlive beacon is said to be the most powerful aviation beacon ever built. The light is so powerful that if the beam were thrown on a house or group of people 15 miles away, snapshot photographs could be taken. A newspaper could be read by the beacon's light 50 miles away and at 55½ miles the light of the beacon is as strong as the light of the full moon. The light at a distance of 33 miles appears 4.79 times lighter than the full moon. The Palmlive beacon is operated from dusk to dawn, re-

*A daytime close-up of the Palmlive beacon.*

